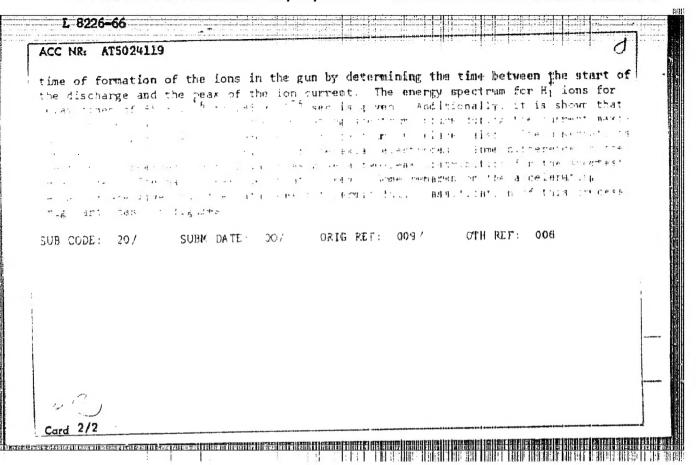
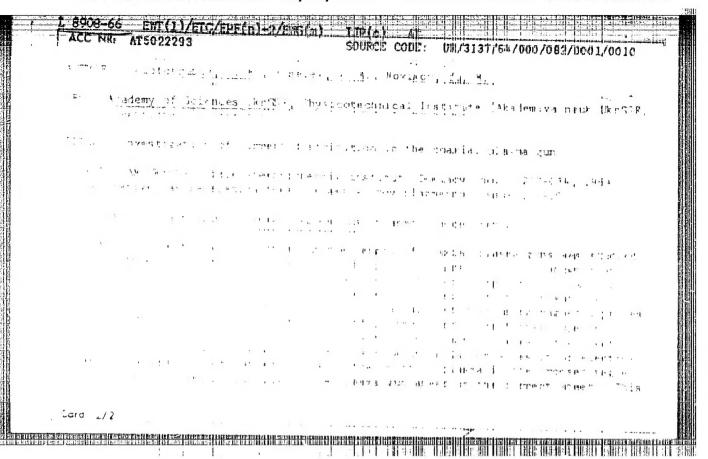
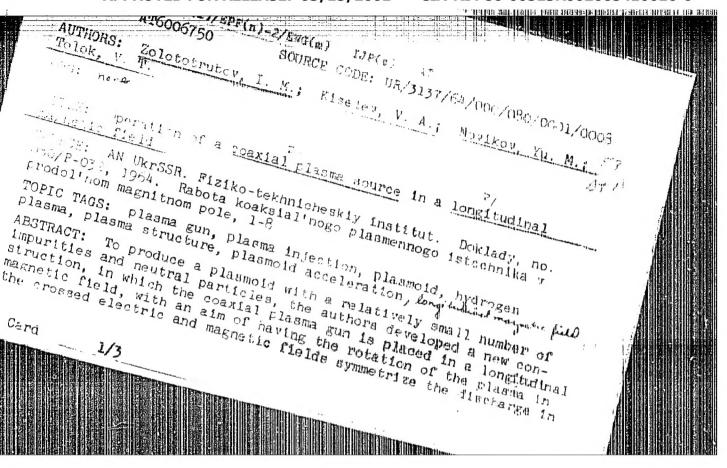
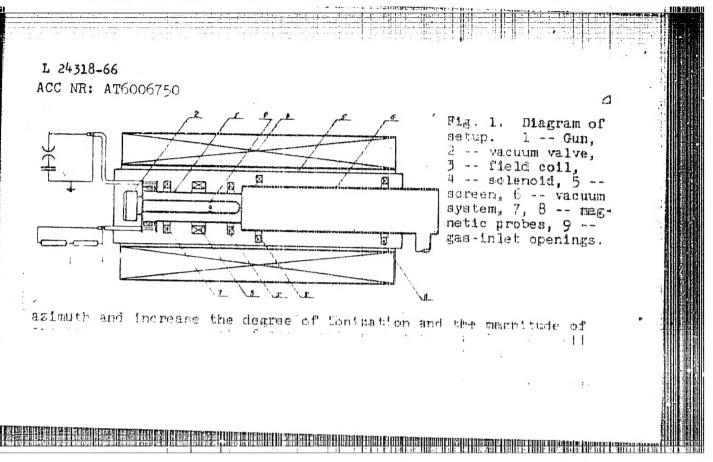
Uradsalla squeci: con: (IR/\$137/64/ddg/081/4001/0010 44,55 AUTHOR: Zolototrubov, I. M.; Rastrepin, A. B.; Skoblik, J. P. ORG: Academy of Sciences UkrSSR, Physicotechnical Institute (Akademiva Nauk OkrSSF, TITLE , investigation of energy partition in hydrogen plasma from a coaxial source SOURCE AN URrSSR. Fiziko-texhnicheskiy institut. Doklady, no. 082/P-033, 1964. issledovaniye energiticheskogo raspredeleniya vodorodnow plazmy (daksial nogo 19to-10PIC TAGS: plasma gun, hydrogen plasma, gas discharge spectroscopy ABSTRACT: Energy partition in the hydrogen plasma produced in a opacial gum is lovestigated in an apparatus that includes an ion energy spectrum analyses. The plasma gar operates at 80 kg and the organic part digs. 20.0 set. An se the impedance reigned the four distance of a first the artist and protoning the motor hydrogen . . . ested into the sighty eventwated chamber at various intervals before the ap-Procession of the voltage pulse to the gur electroles. The fore gunerated it the dis change are analyzed in the or emergy derector asing the engineral flesh to produce owner of the one one in the contract as determed by ost (II) brystal description as well-marily enough to determine the Card 1/2

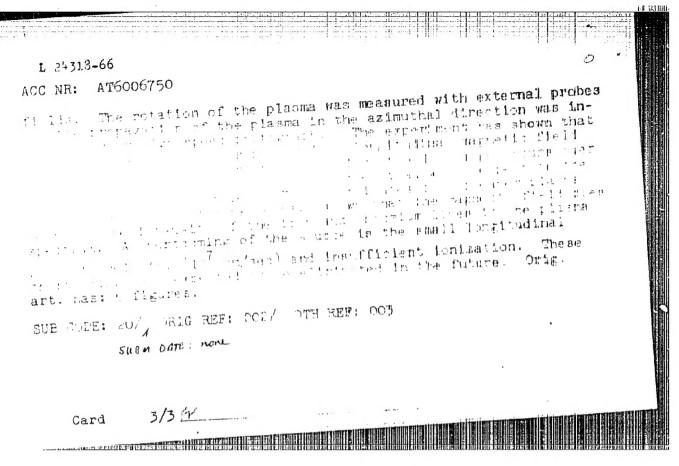




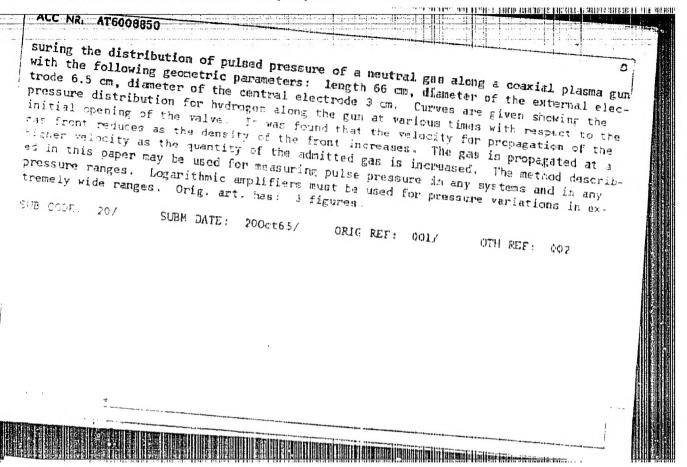
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AUTHOR: Zolototrubov, I. M.; Hyzhov, N. URG: none	<u>и.</u> 3)
TIPLE: Distribution of pressure along a D.URCE: AN UkrSSP. Magnitnyye lovushki (	coaxial system after pulsed gas admission (Magnetic tracs). Kiev, Naukova dunka, 1965,
TOPIC TAGS: manometer, pressure measurem manometer  ABSTRACT: The authors show that a MI-10S suring pulsed pressures. This is a plane and the collector and manometer has a suring pulsed pressures. This is a plane to the constant to prisoning than the collector was directly as the constant of the sensitivity of the common a constant on between readings of the MI-10 to the constant of the MI-10 to the MI-10	ient, plasma gun, has prossure / MI-103  (ionization mamonater may be used for meaparallel manometer with the cathode placed



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AUTHOR: Zolototrubov, I. M.; Kiselev, V. A.; Novikov, Yu. H.; Tolok, V. T. ORG: none

TITLE: Operation of the coaxial plasma source in a longitudinal magnetic field SOURCE: AN UkrSSR. Issledovaniye plazmennykh sgustkov (Study of plasma clusters). Kiev, Naukovo dumka, 1965, 165-171

TOPIC TAGS: plasma gun, plasma source, plasma magnetic field, plasma dynamics,

ABSTRACT: An attempt to develop a plasma source free of impurities by the use of a ABSTRAUT: An attempt to develop a plasma source free or impurities by the use or a coaxial gun in a longitudinal magnetic field is discussed. The plasma gun and its operation is described, its energy source is a battery of condensers (1000 µf) working at 5 kv, the working gas is hydrogen injected by a fast-acting valve. When the gun is operated in the magnetic field, the discharge current plate appears. This, together with the observation of the plasma ejection velocity, indicates plasma drift typical of crossed electric and magnetic fields. High speed photography reveals that the plasma generated when the magnetic field is applied is much more uniform than in the absence of the field. Spectroscopic analysis shows that the magnetic field inhibits very strongly the appearance of electrode material impurities found in discharges without the external field. It is planned to overcome the insufficient ionization and

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low plasma val FOR RELEASE: 03/15/2001 CIA-RDP80-000-19. art. has: 6 figures, 1 formula. SUB CODE: 20/

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ACC NR: AT6020412 (M)

(N) SOURCE CODE: UR/0000/

CE CODE: UR/0000/65/000/000/0148/0156

AUTHOR: Zolototrubov, I. M.; Kiselev, V. A.; Novikov, Yu. M.

77

ORG: none

TITLE: Current distribution in a coaxial plasma gun

SOURCE: AN UkrSSR. Issledovaniye plazmennykh sgustkov (Study of plasma clusters). Kiev, Naukovo dumka. 1965. 148-156

TOPIC TAGS: plasma gun, plasmoid, high speed photography, PLASMA DISCHARGE,

ABSTRACT: The purpose of this work was to determine the current distribution in a co-axial plasma gun and the electrodynamic forces acting on the plasma. The current distribution was determined by a differential magnetic probe and the measurements were taken at different delays between the initial gas injection and time of the discharge. When this delay was 200-300 µsec, discharge current formed several sheets arising due to partial current flows at insulation walls. The probe and fast streak photography data showing this effect are given in the text. Evidence of the trapped magnetic field between the current sheets was also found. It was found that for small delay times, only single current sheets are formed and that their velocity drastically increases during the current maximum. In addition to current sheets, observation of plasmoids was made and it was found that their velocities reached several times that

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ther set of exper	iments. Orig.	art. has:	they are not acce ther by the drift tter-streaming sh 6 figures.	eets and plasmo	oids in ano-
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THE PROPERTY OF ENDOORS PROPERTY OF THE OWNER. MILIN AP6018729 SOURCE CODE: UR/0067/66/036/006/1040/1048 AUTHOR: Zolototrubov, I.M.; Kiselev, V.A.; Novikov, Yu.M.; Rymbov, N.M.; Tolok, V. T. TITLE: A coaxial plasma gun in a longitudinal magnetic field 60 SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 6, 1966, 1040-1048 TOPIC TAGS: plasma gun, hydrogen plasma, contamination, longitudinal magnetic field, ABSTRACT: In an effort to improve the purity and the uniformity with regard to velocity, density, and total number of particles of the plasma bursts from a coaxial, plasma gun the authors investigated the influence of a longitudinal magnetic field on the performance of the gun. It was anticipated that the rotation of the plusma within the gun, due to the Lorentz force on the radial current in the longitudinal magnetic field, would improve the azimuthal uniformity of the current sheet. The diameters of the inner and outer stainless steel electrodes of the 70 cm long coaxial gun were 3 and 7 cm, respectively. The gas (0.1 cm of hydrogen) was admitted through six openings in the inner electrode near its center, and the gun was fired by the 20 ky discharge of a 12 microferad capacitor. The plassa gun was located in the uniform portion of the field of a 1.4 m long solenoid. The nagnetic field rose to its maximum strength of up to 8 kOe in 28 millisec and subsequently decayed exponentially with a time constant of 72 millisec. The processes taking place within the plasma gun UDC: 533.9

#### ACC NR: AP6018729

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were investigated with the aid of a magnetic probe and by recording the discharge current, and the plasmas ejected from the gun were investigated with an external magnetic probe, a spectrograph, a photomultiplier, a monochrometer with the aid of which the intensities of different spectrum lines were displayed on an oscillograph, and a thermal probe. The rather involved processes that took place within the gun are discussed at some length. The rotation of the plasma gave rise to a magnetic trap within which a considerable portion of the gas was confined. Two plasma bursts were usually produced, but under some conditions it was possible to obtain only one burst containing some  $2 \times 10^{16}$  particles at a density of  $2.4 \times 10^{13}$  cm<sup>-3</sup> and nowing with a velocity of  $3 \times 10^7$  cm/sec. The purity of the plasma bursts increased with increasing longitudinal magnetic field strength; at a magnetic field strength of 6.4 kOe there were no lines due to electrode materials in the spectrum, and the lines due to carbon, oxygen, and nitrogen were considerably weaker than in the spectra of plasmas produced without the magnetic field. It is concluded that with the sid of a longitudinal magnetic field one can obtain from a coaxial plasma gun pure high energy plasmas free of slow and contaminated tails, but at the cost of inefficient use of the energy stored in the capacitor bank. The authors thank O.M.Shvets, and Ya.F. Volkov for discussions and criticism. Orig. art. has: 3 formulas and 7 figures.

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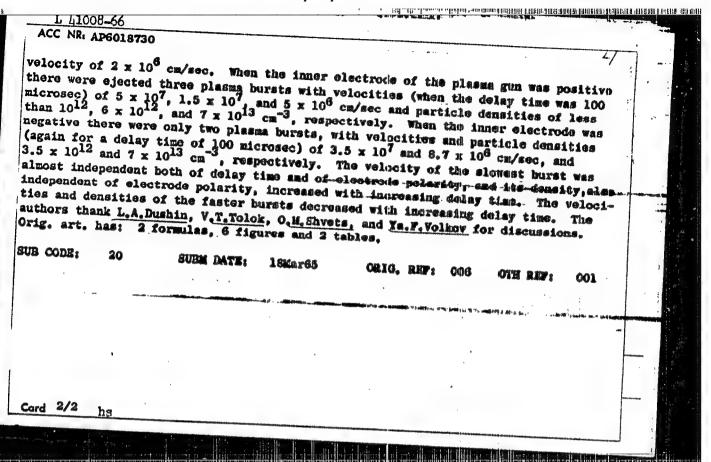
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OF THE STANDARD OF THE PROPERTY OF THE PROPERT T1 111000-00 EWT(1)/EWT(m)/T ACC NRI IJP(c) DS/AT AP6018730 . - SOURCE CODE: UR/0057/66/036/006/1049/1054 AUTHOR: Zolototrubov, I.M.; Skoblik, I.P.; Skibenko, A.I.; Ryzhov, H.M. TITLE: Structure of the plasmas emitted by a coaxial plasma gum with different 5 SOURCE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 6, 1966, 1040-1054 TOPIC TAGS: plasma gun, hydrogen plasma, plasma velocity, plasma density, electrode ABSTRACT: The authors investigated the influence of electrode polarity and duration of the delay between gas injection and discharge of the gun on the structure of the plasmas ejected during the first half-period (6.5 microsec) of operation of a 60 cm long coaxial plasma gun with electrode diameters of 3 and 6.5 cm. The gas was admitted during the course of 80 microsec through a single opening in the center of the outer electrode, and the gun was fired after a delay ranging from 100 to 260 microsec by the discharge of a 30 kV, 12 microfered capacitor. The plasmas were investigated in a 10 cm diameter, 1.2 m long glass drift tube with the mid of two diamagnetic probes, an 8 mm wavelength microwave interferometer, a 4 mm wavelength microwave beam, and a thermal probe. Under all conditions there was observed a jet of unionized gas with a Card 1/2 UDC: 533.9



ZOLOTOV, A.

For new achievements in our work. Grazhd. av. no.3:7 Kr '61.

1. Hachal nik Leningradskogo aeroporta. (MIRA 14:3)

(Leningrad-Airports-Management)

ZOLOTOV, A.

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1. Starshiy instruktor milishchnc-bytovogo otdela Leningradskogo soveta professional nykh soyuzov.

(Leningrad—Construction industry—Auditing and inspection)

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(Gookery (Mushrooms))

(MIRA 13:1)

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MARASEV, 1.P.; ZOLOTOV, A.N.; FOSTNIKOV, V.G.; FUNS, B.A.

Some problems in the field prospecting of Fractured carbonate reservoir rocks in the Markovo oil field. Trudy VNII no.43:

(MTAL 19:5)

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Three winters in the Arctic. Moskva, 1940. 43 p. (Bibliotechka "Stakhenovtsy Arktiki," km. 27) (49-34747)

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1. Arctic regions. 2. Scientific expeditions.

I. Russia (1923- U.S.S.R.) Glavnoe upravlenie Severnogo morskogo puti.

Politicheskoe upravlenie.

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GORBACHEV, V.F.; ZOLOTOV, A.N.; POVYSHEV, A.S.

Methodology of oil search and exploration in the Irbutsk amphitheater. Geol.nefti i gaza 9 no.2124-27 F 165.

1. Vsesoyuznyy nauchno-issledovatel skiy institut prirodnogo gaza 1 trest Vostosibneftegeologiya. (MIRA 18:4)

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Nurseries (Horticulture)

Mechanization of cutting of stocks in fruit nurseries. Sad i cg., No. 4, 1952.

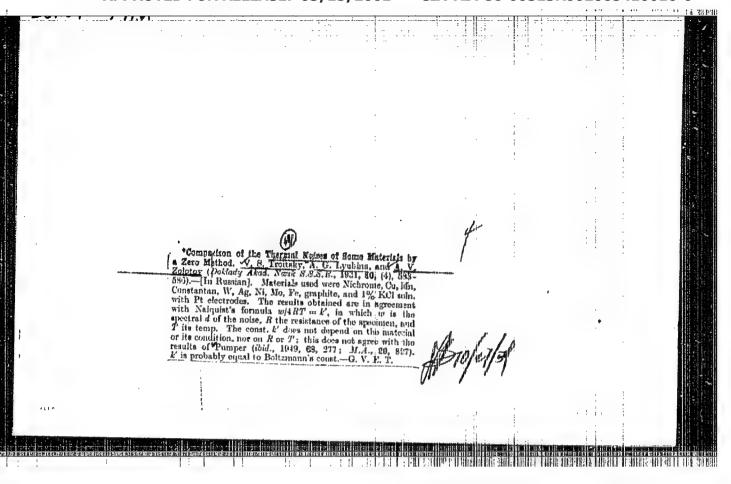
Monthly List of Russian Accessions, Library of Congress June 1952. UNCLASSIFIED.

ZOLOTOV, A. II.

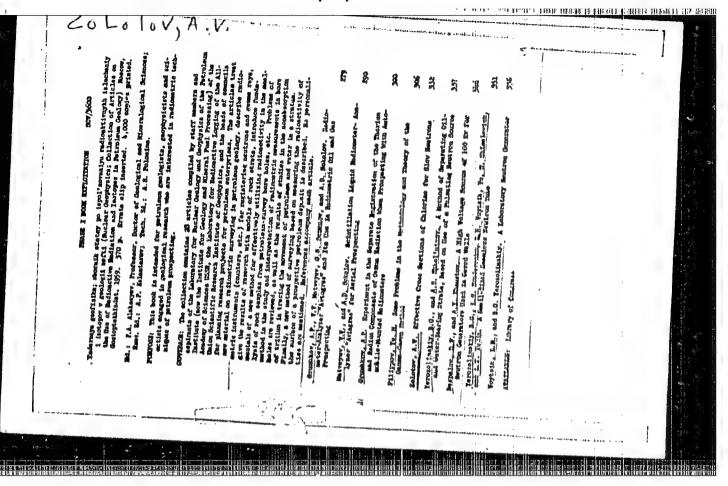
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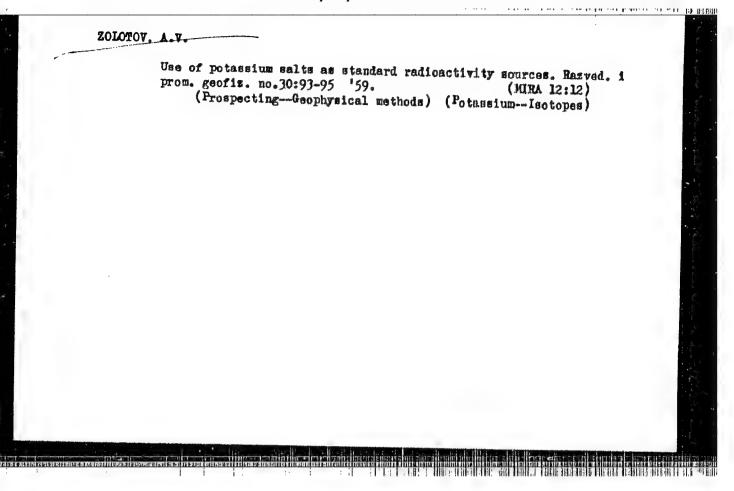
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ZOLOTOV, A.V.; ORLOV, L.I.

Relation between the electric resistance of strata and their water and petroleum saturation. Razved.i prom.geofis. no.32:
3-11 '59. (Mina 13:4)

(Thymasy region-Electric prospecting)

#### CIA-RDP86-00513R002065410016-6

ACC NRI AP6032695

SOURCE CODE: UR/0203/66/006/005/0907/0913

AUTHOR: Zolotov, A. V.

ORG: Volga-Ural Branch, All-Union Institute of Geophysics (Volgo-Ural'skiy filial Vsesoyuznogo instituta geofiziki)

TITLE: Role of the shock wave in the formation of the geomagnetic disturbance caused by a large atmospheric explosion 12.

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 5, 1966, 907-913

TOPIC TAGS: shock wave, geomagnetic disturbance, atmospheric explosion, meteorite, magnetohydrodynamic effect, thermal ionization, meteorite shock wave, 1010 SPHERE, ATMOSPHERIC DISTURBANCE

ABSTRACT: On the basis of analysis of data obtained on the Tungusska meteorite of 1908, the problem is examined as to whether the geomagnetic disturbance associated with the explosion could have been formed as a result of the passage of the shock wave through the ionosphere Name associated wave through the ionosphere Name associated as a result of the passage of the shock

with the explosion could have been formed as a result of the passage of the shock wave through the ionosphere. Youch geomagnetic disturbances, it was believed, might have been caused by increased thermal ionization of the ionosphere behind the shock-wave front and by the magnetohydrodynemic effect. Mathematical computations and arguments are introduced, however, that show that it an explosion be it chemical, nuclear, or other, occurs at heights lower than 70—75 km, the shock wave can not possibly have any substantial significance in the formation of the geomagnetic disturbance accompanying the explosion. It is concluded, therefore, that the Tungusska meteorite shock wave, which occurred at heights not exceeding 10 km, played Cord 1/2 — 1000: 550.385

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no role in the formation of the magnetic disturbance. The most likely cause of the disturbance associated with the Tungusska meteorite explosion was probably the flow of charged particles into a magnetic trap, which could have been formed either by the passage of the body through the ionosphere or as a result of the explosion. The author thanks Yu. D. Kalinin, A. I. Kolchin, and Yu. I. Kontey. Orig. art. has: 2 tables and 2 figures.

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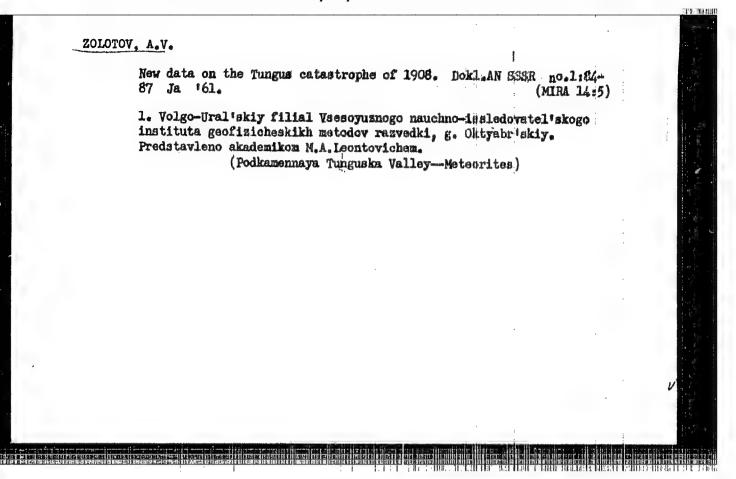
ACC NR. AP6032695

ZOLOTOV, A.V.

Some data obtained by investigating soil and plant samples in the region of the Tungus catastrophy of 1908. Dokl. AN SSSH 140 no.1:103-106 S-0 \*61. (MIRA 1419)

1. Volgo-Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta geofizicheskikh metodov razvedki. Predstavleno akademikom M.A.Leontovichem.

(Podkamennaya Tunguska Valley-Meteorites)



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Vaesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopev i yadernykh izlucheniy v narodnom khzzynystve SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khzzynystve SSSR; trudy Vaesoyuznogo soveshchaniya 12 - 16 aprelya 1960 g. g. Riga, v 4 tomakh. t. 4: Polski, razvedka i razrabotka poleznykh iskopayenykh (Radioactive Instonge and Nuclear Radiation in the National Economy of the USRG; Trunsactions on the Symposium Held in Riga, April 12 - 16, 1861, in 4 volumes. v. 4: Prospecting, Surveying, and Mining of Minineral Deposito) Moscow, Gostoptekhizdat, 1961. 264 p. 3,640 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskly, komitet Soveta Ministrov SSSR. Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii

Eds. (Title page): N. A. Petroy, L. I. Petronko, and P. S. Savitskiy; ed. of this volume: M. A. Speranskiy; Scientific ed.: M. A. Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel'; Card 1/11

CIA-RDP86-00513R002065410016-6

Radioactive Isotopes and Nuclear (Cont.)

Tech. Ed.: A. S. Polosina.

PURPOSE: The book is intended for engineers and technicians dealing with the problems involved in the application of radioactive isotopes and nuclear radiation.

COVFRAGE: This collection of 39 articles is Vol. 4 of the Transiction of the All-Union Conference of the Introduction of Kadioactive Isotopes and Nuclear Reactions in the National Economy of the USSR. The Conference was called by the Geometrytomny nauchno-technichsky komitet Sovet Ministero Sisk (State Scientific-Technical Committee of the Council of Ministers of the USSR), Academy of Educace USSR, Geophin Sisk (Bate Planning Committee of the Gouncil of Ministers of the USSR), Convariativerny komitet Seveta Ministero Sisk po avtomatization i machine stroyenlyu (State Committee of the Council of Ministers of the USSR for Automation and Machine Building), and the Council of Ministers of the Levian SSR. The reports successive in this publication deal with the advantages, prospects, and

Radioactive Isotopes and Nuclear (Cont.)

development of radioactive methods used in prospecting, curveying, and mining of ores. Individual reports present the results of the latest acientific research on the development and improvement of the theory, actinodology, and technology of radiometric investigations. Application of radiometric usetneds in the field of engineering geology, hydrology, and the onstrol of ore enrichment processors is analyzed. No personalities are mentioned. There are no references.

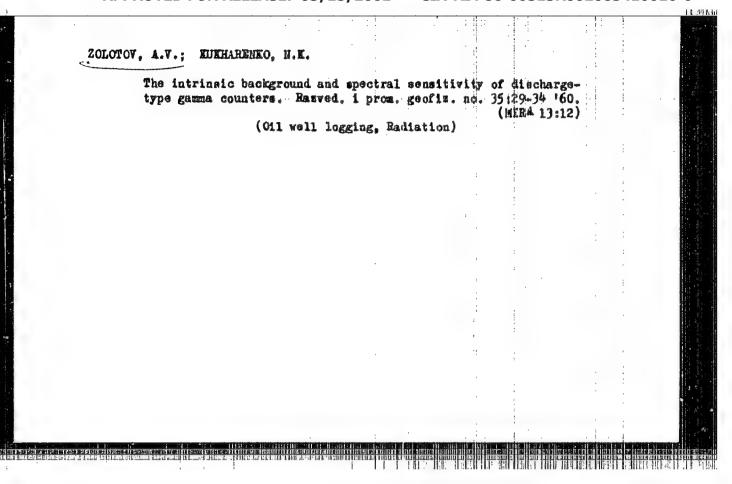
TABLE OF CONTENTS:

Alokseyev, F. A. Fresent State and Future Prospects of Applying the Methods of Nuclear Geophysics in Prospecting, Surveying, and Mining of Minerals

Bulashevich, Yu. P., G. M. Voskoboynikov, and L. V. Manyukin. Neutron and Gamma-Ray Logging at Ore and Coal Deposits 19

Gordeyev, Yu. I., A. A. Mukher, and D. M. Srebrodol'skiy. The Card 3/11

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	Problems		133	
	Zolotov, A. V. Critical Dimensions of an Artificial Bad the Simulation of Radioactive Methods of Lorehole Investigation	for 1-	139	
1.000	Sokolov, M. M., A. P. Ochkur, A. A. Fedorov, A. Yu. Holland P. P. Knitev. Application of the Mothed of Scattere Radiation for the Investigation of Ore Holes	shakov, d Qamma	146	
\$ 1 2	Mazhiborskaya, Kh. B. Radioactivation (Photoneutron) Me for Determining Beryllium	tho1	154	
	Yakubson, K. I. On the Possibility of Activation by Pas Neutrons Under Ecrehole Conditions	t .	157	*
	Sen'ko, A. K. Photoneutron Method of Prospecting, Exploand Sampling of Beryllium Ores	ration,	163	
:	Abdullayev, A. A., Ye. M. Lobanov, A. P. Novikov, and A. Card 7/11	Λ.		
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\$/020/61/136/001/016/037 B019/B056

3.1550 (1057, 1062, 1129)

AUTHOR:

Zolotov, A. V.

TITLE:

New Data on the Tunguska Catastrophe in 1908

PERIODICAL:

Doklady Akademii nauk SSSR, 1961, Vol. 136, No. 1, pp. 84-87

TEXT: The data published here were determined in 1959. The nature of the destruction to trees is dealt with, which all point exactly to one center. A comparison with experimental explosions make it possible to estimate the energy liberated in the course of the catastrophe at 4.10<sup>25</sup> erg. As in the actual center of the destruction timber still stands within a range of roughly 5 km, it is assumed that the explosion took place in the air (not less than 5 km). The ratio between the amplitudes of the explosion wave and the ballistic wave is investigated by studying the destructions to trees. As follows from these investigations, mainly in the zone of incidence of the cosmic body, which were carried out 35-40 km distant from the center, interaction between the two waves exists. From considerations concerning the pressure conditions in the wave fronts, conclusions are drawn as to the velocity of the body. A velocity of 3 km per sec is

Card 1/3

#### 88568

New Data on the Tunguska Catastrophe in 1908

8/020/61/135/001/016/037 B019/B056

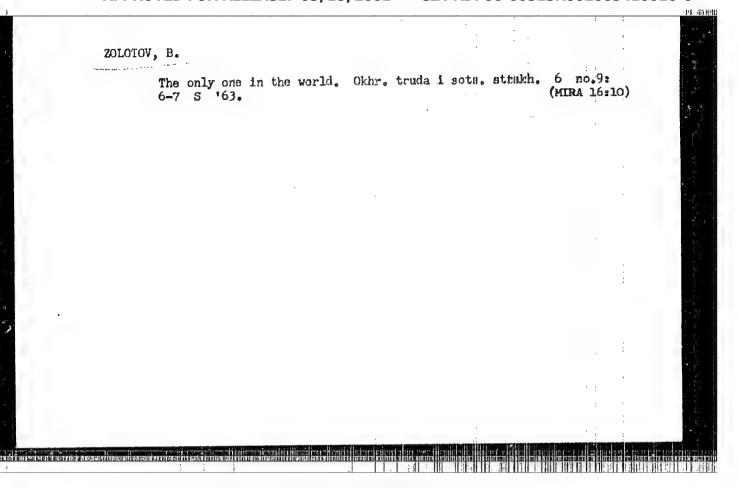
obtained by means of a formula by G. I. Pokrovskiy. The same velocity is obtained by means of a formula given by L. D. Landau (Ref. 6). As temperature of the body, 4000-5000°C is given. From a comparison with other solar bolides, the author arrives at the conclusion that the velocity of the body most certainly did not exceed 3-4 km/sec. Three estimations of the liberated energy were carried out, in which the author bases upon the effect of burning on trees, of the burns suffered by persons, and upon light phenomena during the explosion. 1.5-10<sup>23</sup> erg, 1.1-10<sup>23</sup> erg, and 2.8.1023 erg were obtained for the liberated energies. These three independent estimations thus yield values which agree satisfactorily with one another. S. B. Semenov and P. P. Kosolapov are mentioned. There are 2 figures and 8 Soviet references.

ASSOCIATION: Volgo-Ural'skiy filial Vsesoyuznogo nauchno-issledovatel'skiy instituta geofizicheskikh metodov razvedki g. Oktyabriskiy (Volga-Ural Branch of the All-Union Scientific Research Institute for Geophysical Prospecting Methods, Oktyabriskiy)

PRESENTED:

July 14. 1960, by M. A. Leontovich, Academician

Card 2/3



ZOLOTOV B

Improve the training of navigators. Rech. transp. 24 no.11: 42-43 '65. (MIRA 19:1)

l. Nachal'nik Sudokhodnoy inspektsii Volzhskogo basseyna.

#### "APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065410016-6

PROPERTY OF THE PERSON OF THE

ZOLOTOV, B. A.

B. A. Zolotov, Shornik voprosov i zadach po fizike dlya 6 1 7 klasgov Collection of Physics Questions and Problems for the sixth and seventh Gradus, Uchpedgiz, 10 sheets

Contains 935 questions and problems for the sixth and seventh grade physics course. It corresponds to the standard text book. The questions and problems reflect the current Soviet technology. Solution of many of the questions and problems requires independent observations and experiments by the pupils.

Intended as an aid for the teacher.

SO: U-6472, 12 Nov 1954

PARLASHKEVICH, E.Ya.; VYKHODTSEV, I.A.; ZOLOFOV, B.D.

Example and immediate in the production of indo-e-teluidine.

Ehim.prom.no.4:242-244 Je '56. (MERA 9:10)

(Potentiometric analysis) (Toluidins) (Bleatrades)

SISOYAN, Grigoriy Artem'yevich; ZOLOTOY, E.V., red.; KISHLEVA, T.I., red.izd-va; ISLENT'IEVA, P.G., tekhn.red.

[Electric arc in electric furnaces] Elektrishasknia duga v elektricheskoi pechi. Ind.2., ispr. i dop. Monkva, Gos. nauchno-tekhn.izd-vo lit-ry po chernoi i tavatnoi metallurgii. 1961. 414 p. (MIRA 14:4)

(Electric arc) (Blectric furnaces)

ZOLOTOV, B.V.

137-58-5-9070D

Translation from. Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 46 (USSR)

AUTHOR:

Zolotov, B.V.

TITLE:

An Investigation of the Operation of Electrical Contactor-type Relay Regulators Employed With Thermal Ore Furnaces (Issledovaniye raboty tokovykh releyno-kontaktornykh regulyatorov rudnotermicheskikh pechey)

ABSTRACT:

Bibliographic entry on the author's dissertation for the degree of Candidate of Technical Sciences, presented to the Mosk. energ. in-t (Moscow Power Institute), Moscow, 1957

ASSOCIATION: Mosk. energ. in-t (Moscow Power Institute), Moscow

1. Furnaces--Operation 2. Electric relays--Applications

Card 1/1

SVENCHAUSKIY, Aleksandr Danilevich,; ZoLorov, B.V., red.; LARIONOV, G.Te., tekhn. red.

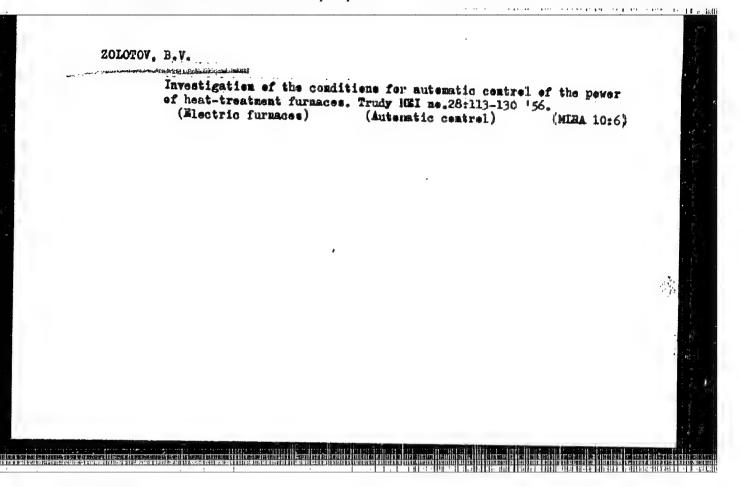
[Industrial electric furnaces] Elektricheskie promyshlennye pechi.
Moskva, Gos. energ. izd-vo. Pt. 1. [Resistance furnaces] Pechi
seprotivleniis. 1958. 287 p. (MIRA 11:11)
(Electric furnaces)

current contractor typesrelay regulators of thermal ore furnaces." Mos. 1957.

15. pp (Mos. Order of Lenin Power Engineering Inst in V. M. Molotov.

Change of Electrothermal Plants). (KL, 43-57, 88)

-28-



ZOLOTOV, B.V., kand. tekhn. nauk; SMELYANSKIY, M.Ya., kund. tekhn. nauk, dots., red.

[Arc furnaces: Electrical characteristics of arc furnaces; summary of lectures] Dugovye pechi: Elektricheskie khurakteristiki dugovykh pechei; konspekt lektsii. Moskva, Moskenergeticheskii in-t, 1964. 114 p. (MIRA 18:5)

SOV/112-58-2-2396

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 100 (USSR)

AUTHOR: Zolotov, B. V.

TITLE: An investigation of the Automatic Power Regulation of a Thermal Ore Furnace (Issledovaniye usloviy avtomaticheskogo regulirovaniya moshchnosti rudnotermicheskoy pechi)

PERIODICAL: Tr. Mosk. energ. in-ta, 1956, Nr 28, pp 113-130

ABSTRACT: The requirements have been investigated for a current-type relaycontactor automatic power controller to be applied to a large ore-thermal
furnace operating on the no-slag method. The current on the high-voltage side
of the furnace transformer, in the "delta-connected electrodes" supply circuit,
was selected as the regulation parameter. The characteristics of current vs.
electrode feed (of the same or an adjacent phase) were determined experimentally; in the processing of the experimental data, statistical functions for the
mathematical expectation of the current and its rms deviations were found.
Three characteristic sets of current-time variation conditions for various

Card 1/2

SOY/112-58-2-2396

An Investigation of the Automatic Power Regulation of a Thermal Ore Furnace

charge-arc resistance ratios were found, for a stationary electrode, for manual control, and for automatic control. It was discovered that the relationship between a small electrode travel and the current deviation can be taken as linear and that, in view of the many factors influencing the furnace operating conditions, a current variation cannot always be compensated by changing the position of the electrode. An automatic regulation system should ensure the slipping of electrodes at the rate of 0.05-0.1 m/min, but not more than 0.22-0.235 m/min, and should have an adjustable neutral zone that would prevent overloading of the starting equipment at sudden current changes.

B.S.B.

Card 2/2

With the Control

L 09144-67 EWT(m)/EWP(t)/ETI IJP(c) JD/JG ACC NRi AR6027496 SOURCE CODE: UR/G137/66/000/004/B015/B015

AUTHOR: Smelyanskiy, M. Ya.; Zolotov, B. V.; Tsishevskiy, V. P.; Zhigalko, Ye. K.; Kuvaldin, A. B.

TITLE: Survey of work done by the "Electrothermal Installations" Department in the field of investigation and industrial application of the high-intensity electric arc.

SOURCE: Ref. zh. Metallurgiya, Abs. 4B93

61

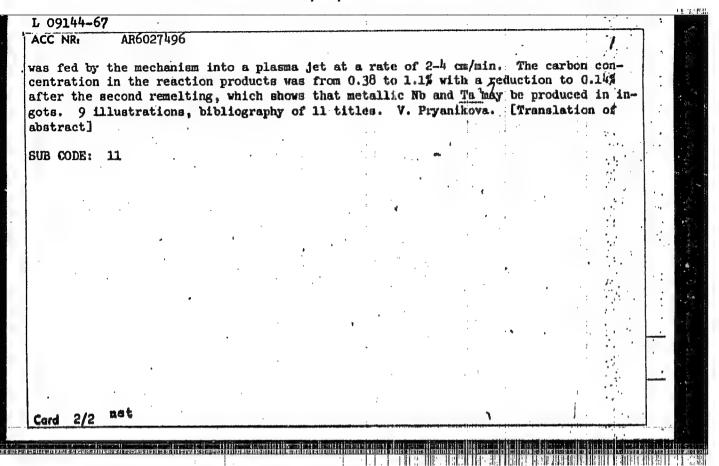
REF SOURCE: Elektrotermiya. Nauchno-tekhn. sb., vyp. 46, 1965, 36-42

TOPIC TAGS: electric arc, metal purification, refractory metal

ABSTRACT: Research has been in progress since 1961 in the "Electrical Installations" Department of Moscow Power Engineering Institute on the working process in installations for arc-heating of gases together with development of methods for designing installations suitable for industrial application. Investigations of the arc-heating process are described for gases with axial stabilization of the arc in a cylindrical channel and data are given on the effect which the type of working medium has on the electrical and power characteristics of the process. An installation is developed for producing refractory metals from their compounds. This installation was used for conducting experiments on carbothermic reduction of nichium in a plasma jet. Raw material in the form of nichium pentoxide and carbide pressed into a billet 6-8 mm in dismeter

Card 1/2

UDC: 669:621.365.6:533-9



ZOLOTOV, D. I.

Technology

Laboratory equipment for testing building materials, Maskva, Ugletskhizdat, 1951.

9. Monthly List of Russian Accessions, Library of Congress, December 1952 INTEX Uncl.

ZOLOTOV, E.B., inzh.; MIKHEIEV, A.A., doktor tekhn, nauk

Determining the physicomechanical characteristics of wheat flour dough by means of a capillary viscosimeter. Pishch. prom. no.2:77-82 '65. (MIRA 18:11)

BOGOLYUBSKIY, N.; BORISOV, S.; GRIGOR'TEV, M.; GUSAROV, M.; GUSEV, L.;

ZHAROV, S.; ZHETVIN, N.; ZALOGIN, S.; ZOLOTOV, M.; KNOZERTSEV, M.;

KLEMENT'YEVA, A.; KOMAROV, A.; KOSHACHEV, V.; LAPTEV, V.; LONGHOSOV, V.;

MIKHAYLOV, A.; KOVIKOV, I.; PERTSEV, M.; PROKOFOVICH, P.; ROMANOV, I.;

RUBLINSKAYA, R.; SVIRIDOV, G.; SOTNIKOV, G.; SUBBOTIN, A.; TURTANOV, I.;

CHESROKOV, S.; CHICHKIN, K.; CHIKHANOV, I.

Grigorii Markelovich Il'in; an obituary. Metallurg 3 no.10:36 0 158.
(MIRA 11:10)
(Il'in, Grigorii Markelovich, 1894-1958)

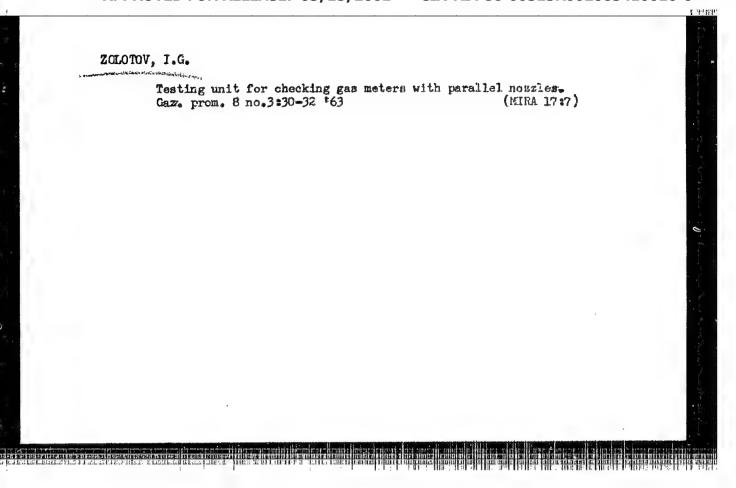
ZOLOTOV, G., val'tsovshchik, Geroy Sotsialisticheskogo Truda, deputat
Verkhovnogo Soveta RSFSR.

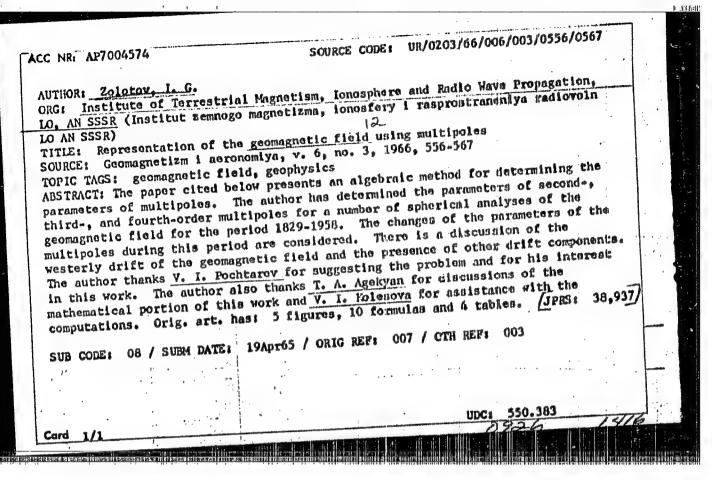
Heroic deeds of our days. Sov. profsoiuzy 17 no.7:4-6 Ap '61.

(MIRA 14:3)

1. Zavod "Serp i molot."

(Moscow—Steelworkers) (Socialist competition)





METALLOVA, V.V.; ZOLOTOV, I.G.; FAYNBERG, F.S.

Results of studies of the magnetic properties of trap rocks from the southern Siberian Platform. Uch.map.IGU no.303:38-48 62. (MIRA 15:11)

(Siberian Platform-Rocks-Magnetic properties)

Control circuit of lifting jacks for streetcars. Eats. predl. ra
gor. elektrotransp. no.9:14-15 '64. (MIRA 18:2)

1. Depo imeni Skorokhodova Tramvayno-trolleybusnogo upravleniya
Leningrada.

ACC NR. AP7008939

SOURCE CODE: UR/0203/66/006/005/0951/0953

AUTHOR: Zolotov, I. G.

ORG: Leningrad Department, Institute of Terrestrial Magnetism, Ionosphere and Radio Wave Propagation, AN SSSR (Institut zemnogo magnetizma ionosfery i rasprostraneniya radiovoln AN SSSR, Leningradskoye otdeleniye) TITLE: Westerly drift of the earth's non-dipole magnetic field and solar activity

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 5, 1966, 951-953 TOPIC TAGS: earth magnetic field. solar activity

SUB CODE: 08,03 ABSTRACT:

Card 1/2

A study has been made of the temporal changes of the rate of westerly drift of the non-dipole geomagnetic field and its dependence on solar activity. For determining the rate of westerly drift of the non-dipole field the author uses the method proposed by T. Yukutake (Sull. Earthq. Res. Inst., 40, 1, 1962). He derived formulas for determining the rate of westerly drift with integration along circles of latitude. The mean rate of drift is computed for each circle of latitude. The author, on the other hand, has determined the mean rate of drift of the magnetic field for the earth as a whole and therefore integration was for the entire earth's surface. A formula is derived for determining the mean velocity of westerly drift of the non-dipole field. The formula shows that for determining the rate of drift for any epoch it is necessary to have a set of Gauss coefficients for this epoch of both the earth's magnetic field and its secular variations. The re-

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UDC:

523,745:550,389

ACC NR: AP7008939 sult of computa is shown in a fi	tion of the rate gure. With a pr	robability of 90	% it can be	stated that	•		
there is a negation-dipole part of plaining this do l) with an increcreases; 2) this but also for its link in the prob	of the geomagnet pendence there a ase of solar act dependence is a inner part. The	tic field and so are two facts of tivity the rate observed not onl his correlation	lar activit primary im of westerly y for the t constitutes	y. For ex- pertance: drift de- otal field, an important		1 : ;	
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#### ZOLOTOV, I.N.

Regulating the wages in the head mechanic's sections. Tekst. pros. 17 no.5:59-60 Ky '57. (MLRA 10:6)

1. Nachal'nik otdela truda i marabotnoy platy Yelgavskoy l'nopryadil'noy fabriki.

(Textile machinery--Maintenance and repair) (Wages)

ZOLOTOV, L. A.

ZOLOTOV, L. A. --"Investigation of the Effect of the Surface Roughness of Section Tubes on the Pressure Losses and Efficiency of Turbines." (Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min of Higher Education USSR, Moscow Order of Lenin Power Instiment V. M. Molotov, Moscow-Leningrad, 1955

SO: Knizhnaya Letopis!, No. 25, 18 Jun 55

\* For Degree of Candidate in Technical Sciences

11589-66 EXT(m)/EWP(t)/EMP(b)/EMA ACC NA AP6000373 AUTHORS: Shaposhnikov, A. P.; Zalotov, I. N.; Suvareva, T. S.; Borukhin, H. Ya.; Makarova, L. H.; Buchenkov, F. I.; Markov, F. F. ONG: none TITLE: Method for correcting the chemical composition of fused setallurgical slags. Class to. No. 176197 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 91 TOPIC TAGS: slag, synthetic slag, metallurgical process, metallurgr ARSTRACT: This Author Contificate presents a method for adjusting the chemonal the following the second in any action additions only the larger Me and a new entry and the order of the passes of making recentive maintainer. I fused sumptume The second of the second secon cosmo socio dappro, diacase, casao castesite, power poset asmes, sei similar naten kululare used ak ad ittives. Illika are organel alktigserhaled ip til bæir respecis the first of the constraint state. The amount of fadditions is a body at. I the total mass of the cixture, SUB CODE: 11/ SUBM DATE: 19Jun62 Card 1/1 HO UDC: 669.05%.02:669.046.58

SHAPOSHNIKOV. A.P.; 20LOTOV, 1.N.

Cast stone pipe. Stek. 1 ker. 22 no.3:2-3 Mr '65.

(MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut stekla (for Shaposhnikov). 2. Moskovskiy opytnyy zavod steklokristallicheskikh materialov i kamennogo lit'ya (for Zulotov).

14(6)

SOV/112-59-1-486

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, p 64 (USSR)

AUTHOR: Zolotov, L. A

TITLE: Discharges Through the Unfinished Building of the Irkutsk Hydroelectric Station During Dam-Gonstruction Work on the Angara River

PERIODICAL: Tr. N.-i. sektora Mosk. fil. in-ta "Organergostroy," 1957, Nr 1, pp 36-46

ABSTRACT: Bibliographic entry.

Card 1/1

ZOLOTOV, L.A., kand.tekhn.nauk; SEMENKOV, V.M., insh.

Hydraulic investigation of a new type of concentrated-fall hydroelectric power station. Trudy Mauch.-issl.sekt.Mosk.fil.Inst.

"Organergostroi" no.3:71-82 \*59. (MIRA 14:7)

(Eydroelectric power stations)

## "APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R002065410016-6

ZOLOTOV, 2A AYVAZ'IAH, V.G., doktor tekhnicheskikh nauk, professor; 201070V, L.A., kandidat tekhnicheskikh nauk; EINCHEOV, V.H., inshessor, beiselbeitenstandenst Increasing the capacity of pressure spillways of "integral" hydron-lectric power stations during maximum fleed discharge. Gidr. stroi. 26 no.3:15-20 Kr 157. (HIRA 10:4) (Hydroelectric pewer statious)

BELYAYEV, A.A.; ZOLOTOV, L.V.

Surgical tactics in perforations of the uterus with injury to the internal organs. Khirurgiia 35 no. 5:98-103 My 159.

(MIRA 13:10)

1. Iz 1-y khirurgicheskoy kliniki (zav. - prof. S.V. Lobachev)
Moskovskogo gorodskogo nauchno-issledovatel skogo instituta
skoroy pomoshchi im. Sklifosovskogo (dir. - zasluzhennyy vrach
USSR M.M. Tarasov, glavnyy khirurg - prof. B.A. Petrov).

(UTERUS-RUPTURE) (VISCERA-WOUNDS AND INJUNIES)

BELYAYEV, A. A.; ZOLOTOV, L. V.

Emergency repeated laparotomy. Vest. khir. no.4:20-27 162. (MIRA 15:4)

1. Iz Moskovskogo gorodskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel skogo instituta skoroy pomoshchi im. N. V. Sklifosovskogo (dir. - zasluzh. vrach UkrSSR N. M. Tarasov).

(ABDOMEN\_SURGERY)

ZOLOTOV, L. V.

Postoperative intra-abdominal hemorrhage. Khirurgiia 36 no.21 40-46 F 160. (MIRA 13:12) (OPERATIONS, SURGICAL)

VERESHCHAGIH, V.H., otv.red.; KRASHYY, L.I., otv.red.; VLASGY, G.M., red.; ZOLOTOV, M.G., red.; ZHAMOYDA, A.I., red.; KIPARISGVA, L.D., red.; MODZALEVSKAYA, red.; CHIKHIMOVSELE, V.V., red.; SAVHAHOV, B.P.; CHEMEKOV, Yu.F.; SKVORTSOV, V.P., red.; AVERIVEVA, T.A., tekhn.red.

[Resolutions of the Interdepartmental Conference on the Elaboration of Standard Stratigraphic Systems for the Far East] Reshemiia sovethchaniia Mozhvedomatvennogo soveshchaniia po restabethe unifitairovannych stratigraficheskikh skhem dlia Dal'nego Vostoka. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr. 1958. 51 p. (MIRA 12:3)

1. Mezhvedomatvennoje soveshchaniye po rasrabotke unifitsirovannykh stratigraficheskikh skhem dlya Dal'nego Vostoka, Khabarovsk, 1956.
2. Predsedatel Orgkomiteta Keshvedomatvennogo soveshchaniya po rasrabotke unifitsirovannykh stratigraficheskikh skhem dlya Bal'nego Vostoka (for Krasnyy). (Soviet Far Mast--Geology, Stratigraphic)

ZOLOTOV, M.N.,
A. V. FROST, ACTA PHISCHIM 1, 511-20 (1934)

can be the consistency of shirt infall II Sh

18(5) AUTHOR:

SOV/128-59-4-7/27 Layko, F.M., and Zolotov, N.A., Engineere

TITLE:

Automating the Charging of Coke Into the Cupola

PERIODICAL:

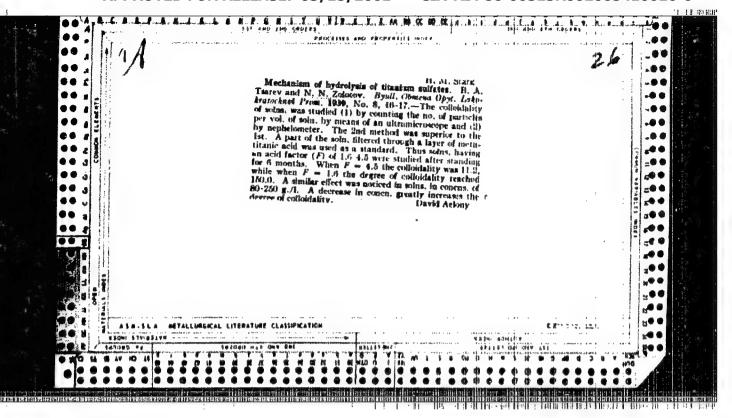
Liteynoye Proizvodetvo, 1959, Nr 4, pp 12-14 (USLR)

ABSTRACT:

In the foundry for malleable cast iron of the Likhachev Auto Plant, an installation was built which mechanizes the sieving process, and provides for the transport and automatic charging of coke into the cupola. Figures 1-3 give a detailed description of this installation. It has a special charging window which is opposite the usual charging window of the cupola. The frame of the window and the gate valve are water cooled. The mechanization of the coke and lime stone charging is saving much heavy physical labor. Wagons, cranes, and other machinery are now become superfluous. The coke consumption is kept low, and the output of the cupola is raised by 10-15%, because there are no more interruptions of its operation, which are unavoidable when charging mannually. There

Card 1/1

are 2 diagrams and 1 photograph.



PROKOF YEVA, M.T., doktor veterinarnykh nauk; DOROSHKO, I.H., kand.
veterinarnykh nauk; GUROVA, Ye.I., kand.veterinarnykh nauk;
ZOLOTOV, N.N., veterinarnyye vrachi

Use of furazolidone in the pullorum disease and paratyphoid fever
of poultry. Veterinariia 38 no.1:41-46 Ja \*61. (MIRA 15:4)

1. Ukrainskiy NIIEV.
(Oxazolidinone) (Poultry-Diseases and pests)
(Pullorum disease)

ZOLOTOV, N. N., IGNATOV, V. A., FROKOF'YEVA, M. T., DOROSHKO, I. M., GUROVA, E. I.

Veterinary Surgeous, Ukrainian MILEV.

"Application of Furasolidone in Rullorum Disease and Paratyphoid of Fowls."

Veterinariya, Vol. 38, No. 1, p. 41, 1961.

क करकर देशकार में विकास सम्बद्धानीय श्रीतिकार विश्वास एक विकास साथ लेगी है।

- 1. ZOLOTOV, N. N.: PROKOF'YEVA, M. T.: DOROSHKO, I. N.
- 2. USSR (600)
- 4. Antigens and Antibodies
- 7. Importance of local strains for increasing the sensibility of the pullorum disease antigen. Nauch.trudy UIEV. 18, 1951.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

- PROKOF YENA, M. T. and DOROSHKO, I. N. and ZOLOTOV, N. H.
- 2. USSR (600)
- 4. Pullorum Disease
- 7. Importance of local strains for increasing the sensibility of the pullorum disease antigen. Nauch.trudy UIEV 18 1951.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

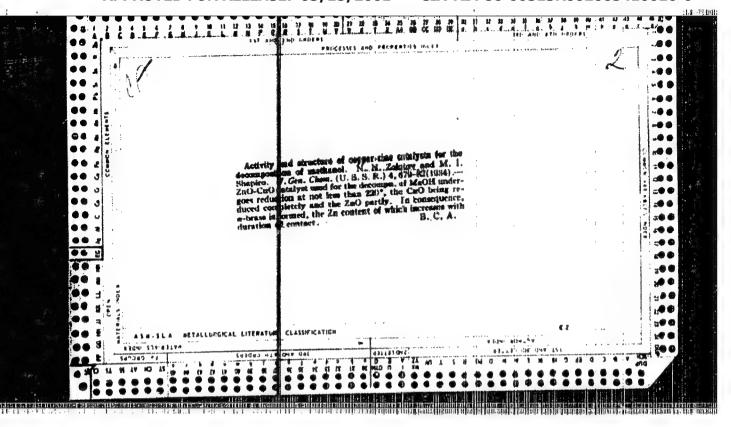
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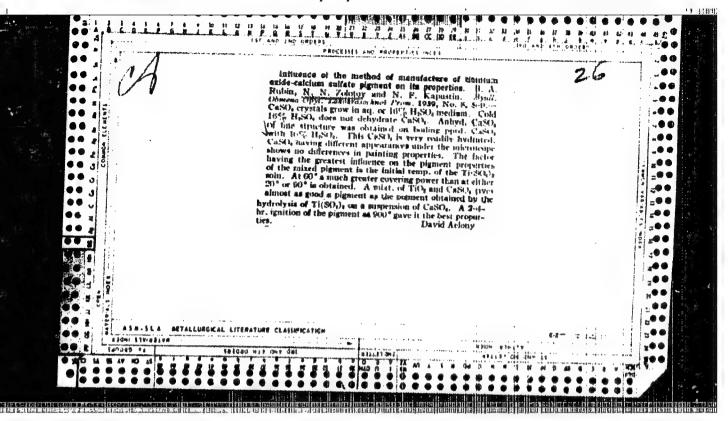
"About the role of a deep permanent litter in epizootiology of hen pullorum disease and tuberculosis."  $\,$ 

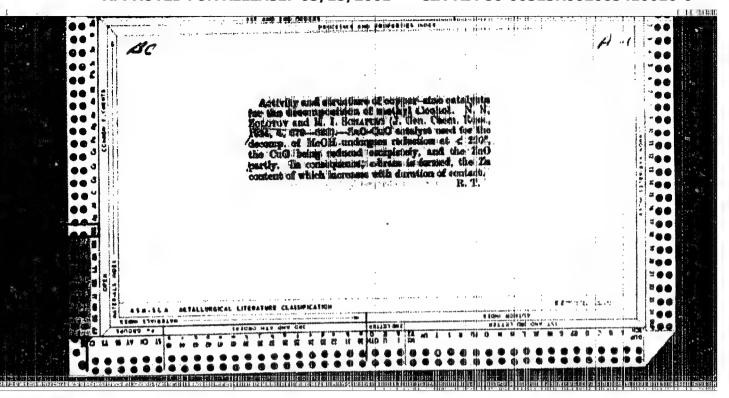
Veterinariya, Vol. 37, No. 5, 1960, p. 28

Zolotou - Vd. Dr.

Wer. Sci. Res Inst. Experimental Vet.







ACC NRI AR6024044

SOURCE CODE: UR/0044/66/000/004/V031/V031

AUTHOR: Golyand, I. I.; Zolotov, O. H.; Rotov, Ye. G.; Sinel'nikov, D. Ye.

TITLE: The modernization of the digital computer "Ural 1"

SOURCE: Ref. zh. Matematika, Abs. 4V188

REF SOURCE: Sb. Vopr. vychisl. matem. i vychisl. tekhn. Rostov-ma-Donu, Rostovsk. un-t. 1965, 123-135

TOPIC TAGS: computer design, computer research, computer technology, digital computer computer circuit

ABSTRACT: The description of numerous changes introduced into the circuit of the digital computer "Ural-1", used at the computer center of the RGU, is presented. The new operations introduced are: summation over the "unit" modulus; "arithmetic shift"; additional modification of the operation of conditional control transmission; and the improvement of the circuit of the control register. It is shown that these changes allow a widening of the class of problems which may be solved. Numerous changes were introduced with the aim of increasing the reliability and simplifying the exploitation. The time diagram of the counter within the block of the address of the number NMB has been stabilized, and the blocking of the recording over the senior-junior addresses has become more reliable; changes were carried out also within the block of synchronization NML, and the false zone determination was blocked; germanium and copper oxide

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diodes were substit	uted by silicon diodes, and the		like.	[Tran	Translatio		n of abstract]		
11 illustrations.	A. SugaroA		٠.						
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ACC NR. AR6026519

SOURCE CODE: UR/0373/66/000/004/V031/V031

AUTHOR: Golyand; I. I.; Sinel'nikov, D. Ye.; Zolotov, O. M.; Rotov, Ye. G.

TITLE: Modernizing the Ural-1 digital electronic computer

SOURCE: Ref. zh. Kibernetika, Abs. 4V188

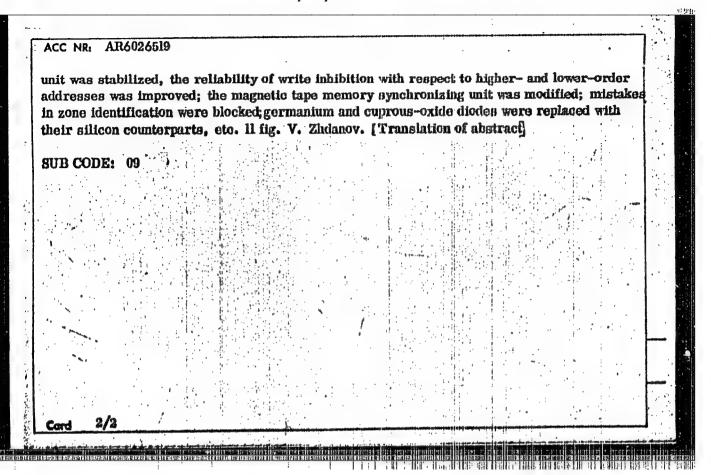
REF SOURCE: Sb. Vopr. vychisl. matem. i vychisl. tekhn. Rostov-na-Donu, Rostovsk. un-t, 1965, 123-136

TOPIC TAGS: Aelectronic digital computer, digital computer, computer component, computer design / Ural-1

ABSTRACT: A number of modifications introduced in the scheme of the Ural-1 electronic digital computer used at the computer center of Rostov-on-Don State University is described. The following operations were introduced: modulo "unity" addition; "arithmetic shift"; additional modification of unconditional transfer; improvements of the control register circuit. It is pointed out that these alterations make it possible to broaden the class of solvable problems. A number of alterations was undertaken with the object of enhancing reliability and facilitating operation: the time diagram of the counter in the magnetic drum memory address

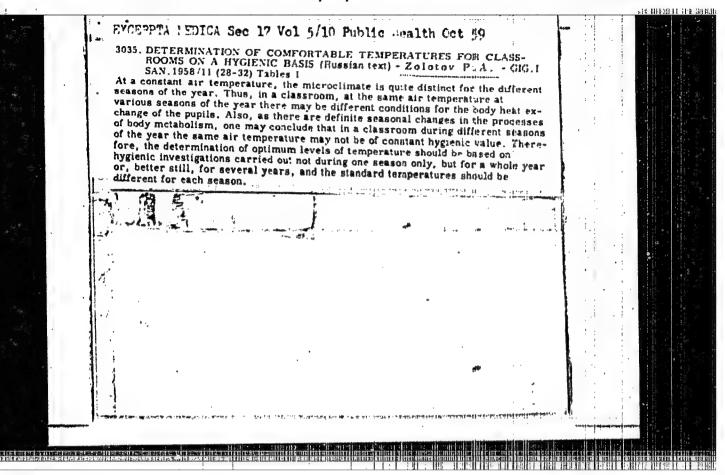
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